

## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims**

1           **Claim 1 (previously presented):** A heating apparatus

2    comprising:

3           an infrared ray lamp including a heating element which  
4    has a substantially plate shape, a cross-section of which  
5    is a rectangular shape, and which is hermetically sealed in  
6    a glass tube, and

7           a reflection plate which is disposed so as to keep a  
8    predetermined distance from outside of said glass tube of  
9    said infrared ray lamp,

10          wherein said heating element has a width which is  
11    larger than a thickness thereof by five times or more, and  
12    is formed of a carbon-based substance consisting at least  
13    of crystallized carbon, a resistance value adjustment  
14    substance and amorphous carbon,

15          wherein said reflection plate has at least a similar  
16    length as that of the infrared ray emitting portion of said  
17    heating element, is disposed in parallel with the center  
18    line in the longitudinal direction of said heating element,  
19    and has a substantially arcuate shape using the center line  
20    of said heating element as a center thereof, and

21          wherein a reflection face of said reflection plate  
22    that opposes said heating element is disposed so as to be

23     opposed to one of the wider side portions of said heating  
24     element.

**Claim 2 (canceled)**

1           **Claim 3 (previously presented):** A heating apparatus  
2     comprising:

3           an infrared ray lamp including a heating element which  
4     has a substantially plate shape, of which cross-section is  
5     a rectangular shape, and which is hermetically sealed in a  
6     glass tube, and

7           a reflection plate which is disposed so as to keep a  
8     predetermined distance from outside of said glass tube of  
9     said infrared ray lamp,

10          wherein said heating element has a width which is  
11     larger than a thickness thereof by five times or more, and  
12     is formed of a carbon-based substance consisting at least  
13     of crystallized carbon, a resistance value adjustment  
14     substance and amorphous carbon,

15          wherein said reflection plate has at least a similar  
16     length as that of the infrared ray emitting portion of said  
17     heating element, is disposed in parallel with the center  
18     line in the longitudinal direction of said heating element,  
19     and has a substantially arcuate shape using the center line  
20     of said heating element as a center thereof, and

21            wherein the reflection face of said reflection plate  
22    that opposes said heating element is disposed so as to be  
23    opposed to one of the narrower side portions of said  
24    heating element.

1            **Claim 4 (currently amended):** A heating apparatus in  
2    accordance with claim 1 or 3, wherein said reflection plate  
3    having a substantially arcuate shape is disposed so that  
4    both ends of said reflection [[pate ]]plate in a direction  
5    orthogonal to the longitudinal direction thereof is  
6    arranged on a plane including the center line of said  
7    heating element.

1            **Claim 5 (previously presented):** A heating apparatus in  
2    accordance with claim 1 or 3 wherein a cross-section of  
3    said reflection plate has a substantially arcuate shape  
4    formed of a combination of plural straight lines, such as  
5    a part of a polygon.

1            **Claim 6 (previously presented):** A heating apparatus  
2    in accordance with claim 1 or 3 wherein said reflection  
3    plate is configured so as to reflect radiant heat from said  
4    heating element and diffuse the radiant heat to the front  
5    of said infrared ray lamp.

**Claims 7-38 (canceled)**